

# Galaxy Cluster Motion Confirmed

(2012)

- Physicists Rashid Sunyaev and Yakov Zel'dovich claimed in 1972 that the motion of galaxies should cause a shift in the Cosmic Microwave background.
- In 2012, the Atacama Cosmology Telescope and the Baryon Oscillation Spectroscopic Survey compiled signals from many galaxy clusters to detect a shift.
- Researchers studied the Sunyaev–Zel'dovich effect in 7500 galaxies to determine the motion.
- Researchers discovered galaxies moving at speeds up to 600 km/s.
- The Cosmic Microwave background shows a cold spot for galaxies moving away from Earth, and a warm spot for galaxies moving toward Earth.

